United States

OMB Control No. 2080-0021 Approval expires 12/31/2010

ENVIRONMENTAL PROTECTION AGENCY

Washington, DC 20460

Laboratory DMR-QA Evaluation Study 30

Laboratory Performance Evaluation

Office of Enforcement and Compliance Assurance

(These data are collected under the authority of the Federal Water Pollution Control Act.)

NPDES Permittee Data Report Form

Due August 20, 2010

Attention: Follow the instructions on the previous page to complete this form and submit data for evaluation.

State	NPDES Permit Number	Permit Extension
AK	G315001	

Permittee name: GRANITE POINT TANK FARM

Current Permittee mailing address: PO BOX 196247

City: ANCHORAGE State: AK Zip Code: 99519

Phone Number: +1 (907) 276-7600 FAX Number: +1 (907) 263-7321

e-Mail: MMJONES@CHEVRON.COM

For DMR-QA Study 30, conducted in 2009, the Permittee ensured that their laboratory(s) performing the required analyses:

Received PT Samples	Submitted Complete and Accurate Data by July 2, 2010	Received a Graded Report by July 23, 2010
Yes ☒ No ☐	Yes ☒ No ☐	Yes ☒ No ☐

Certification by Permit Holder or Authorized Representative

(as per 40 C.F.R. Section 122.22 - see instructions.)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Each reported value was produced from a single analytical run using the analytical system that routinely performs these analyses to produce compliance monitoring data required under our National Pollutant Discharge Elimination System (NPDES) permit. Neither I nor any of my subordinates compared our results with results from independent analyses conducted by us or any other laboratory before we reported our results to the U.S.EPA. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Certifying Official: DALE HAINES Title: OPERATIONS MANAGER

Signature: Dale Haines Date: 08/17/10

Address, phone number and e-mail of certifying official are required if different from above.

Address: 3800 CENTERPOINT DRIVE SUITE 100 Phone No.: +1 (907) 726-7600

City: ANCHORAGE State: AK Zip Code: 99503 e-Mail: DALEAH@CHEVRON.COM

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Laboratory DMR-QA Evaluation Study 30

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Permittee name	State	NPDES Permit No.	Permit Extension
GRANITE POINT TANK FARM	AK	G315001	

Identification of all CHEM, MICRO and WET laboratories who did analyses for this permit

Name of Laboratory	Address of Laboratory	U.S. EPA Lab Code	Lab Analysis Check box(es) that apply			Lab Type*
			CHEM	MICRO	WET	
NORTHWESTERN AQUATIC SCIENCES	PO BOX 1437 NEWPORT, OR 97365	OR00029	☐	☐	☒	Commercial
SGS NORTH AMERICA INC	200 WEST POTTER DRIVE ANCHORAGE, AK 99518	AK000971	☒	☐	☐	Commercial
			☐	☐	☐	
			☐	☐	☐	
			☐	☐	☐	
			☐	☐	☐	

*Lab Types: C = Commercial F = Federal G = Local Government I = Industrial O = Other S = State

If you need additional space, please make a copy of this page for additional laboratories.

Permittee name GRANITE POINT TANK FARM State AK NPDES Permit No. G315001 EPA Lab Code AK00971

Chemistry/Microbiology Analyte Checklist

DMR-QA Study 30

Analyte Test	Test Required	Laboratory's Graded Result: Acceptable	Laboratory's Graded Result: Not Acceptable (Corrective Action Required)	
Microbiology				
E. coli.	☐	☐	☐	
Fecal Coliform, MF or MPN	☐	☐	☐	
Total Coliform, MF or MPN	☐	☐	☐	
Trace Metals				
Aluminum	☐	☐	☐	
Antimony	☐	☐	☐	
Arsenic	☐	☐	☐	
Barium	☐	☐	☐	
Beryllium	☐	☐	☐	
Cadmium	☐	☐	☐	
Chromium, total	☐	☐	☐	
Chromium, hexavalent	☐	☐	☐	
Cobalt	☐	☐	☐	
Copper	☒	☐	☒	see next 2 pages
Iron	☐	☐	☐	
Lead	☐	☐	☐	
Manganese	☒	☒	☐	
Mercury	☒	☒	☐	
Mercury (Low Level)	☐	☐	☐	
Molybdenum	☐	☐	☐	
Nickel	☐	☐	☐	
Selenium	☐	☐	☐	
Silver	☒	☒	☐	
Thallium	☐	☐	☐	
Vanadium	☐	☐	☐	
Zinc	☒	☒	☐	
Demands				
5-day BOD	☐	☐	☐	
5-day Carbonaceous BOD	☐	☐	☐	
COD	☐	☐	☐	
TOC	☐	☐	☐	
Minerals				
Alkalinity, total ($CaCO_3$)	☐	☐	☐	
Chloride	☐	☐	☐	
Fluoride	☐	☐	☐	
Hardness, total ($CaCO_3$)	☐	☐	☐	
Specific conductance (25°C)	☐	☐	☐	
Sulfate	☐	☐	☐	
Total Dissolved Solids (180°C)	☐	☐	☐	
Nutrients				
Ammonia as N	☒	☒	☐	
Nitrate as N	☐	☐	☐	
Nitrite as N	☐	☐	☐	
Orthophosphate as P	☐	☐	☐	
Total Kjeldahl-Nitrogen as N	☐	☐	☐	
Total Phosphorus as P	☐	☐	☐	
Misc. Analytes				
Non-Filterable Residue (TSS)	☐	☐	☐	
Oil and Grease	☒	☒	☐	
pH	☐	☐	☐	
Total Cyanide	☐	☐	☐	
Total Phenolics (4-AAP)	☐	☐	☐	
Total Residual Chlorine	☐	☐	☐	
Total Residual Chlorine (Low Level)	☐	☐	☐	
Settleable Solids	☐	☐	☐	
Turbidity	☐	☐	☐	

Signature [signature] Page 16 Date 8/16/2010 **Use a separate checklist for EACH lab used**

SGS

Corrective Action Report for PE Study Outliers

Note: PE-CARs are now managed by the Corrective Action Committee (CAC). The CAC initiates a PE-CAR after a PE Study failure; the PE-CAR is assigned to a CAC member who begins the investigation and then presents the PE-CAR at the next CAC meeting.. After successful completion, which may require analysis of a remedial PE samples, the CAC will issue a finalized copy to the Analyst to be kept on file in their Training Manual.

PE-CAR_0031

SGS WO#:	1102232	PE Study:	WP10-3A		PE Report Date:		7/22/2010
Method #	**Test Name**	**Parameter**	**Date of Analysis**	**Lab Result**	**Units**	**Certified Value**	**Acceptance Limits**
200.8	Metals	Copper	6/10/2010	430	ug/L	378.00	334-422

After investigation of the PE anomaly, complete the following:

Transcription Error?	No	Corrective Action:	N/A
Calculation Error?	No	Corrective Action:	N/A
Identification Error?	No	Corrective Action:	N/A
Lab QC samples compliant?	Yes	Exceptions:	N/A
Chromatography or analysis issue?	No	Explain:	N/A

Corrective Action Plan / Comments:

Copper was reported from of sample 1102232011 in prep batch MXX 23077 and analytical batch MMS 6472 (Analyst Kurt Clarkson and Peer Reviewer Nick Bryant); Cu 65 was reported.

SGS North America Inc.

Metals Preparations Log

Prep Method: 200.2/200.8
Prep Date: 6/8/10 (9100 PB SAMPLES)
Analyst: KAN
Queue / Batch: MXX 23077

Sample #	Lab Filtered	pH<2	Initial Vol	Initial Wt (g)	Final Vol	Comments
MB	Z	Yes	50	N/A	25	965852
LCS	Z					965853
2232-11A	N/A					
(MS) - 11A						
- 12A						
↓ 2A	↓	↓	↓	↓	↓	

The calibration meet criteria:

Cu	62.930	Linear Thru Zero	0.0040313	0.9998663
Cu	64.928	Linear Thru Zero	0.0019785	0.9998973

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: 1102232091
Sample Type: Sample
Sample Description:
Sample Date/Time: Thursday, June 10, 2010 18:27:55
Dataset File: C:\Elandata\DataSet\06.10.2010.p3b\1102232001.075
Method File: C:\elandata\Method\esi fast methods\200.8_fast.mth
Dual Detector Mode: Dual
Diluted To Volume (mL): 5.0000
Autosampler Position: 144

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
C	13		mg/L	11230.238	11670.841	4.243
Cl	37		mg/L	5601799.313	6490161.428	0.901
Li	7	437.8670	ug/L	68880.371	8.000	4.446
Be	9	428.7957	ug/L	23082.557	3.333	3.217
B	11	29.4855	ug/L	3319.326	94.667	2.279
Al	27	1691.4315	ug/L	1882824.638	1116.075	1.373
Sc	45		ug/L	5413224.419	5738328.000	3.324
V	51	4023.1230	ug/L	6828141.996	1682.667	0.849
Cr	52	267.8017	ug/L	381233.242	12572.814	1.882
Cr	53		ug/L	57203.024	19673.231	1.546
Mn	55	7609.8708	ug/L	15664199.334	369.342	0.634
Co	59	2013.8798	ug/L	3179266.481	29.333	1.331
Ni	58	2860.5269	ug/L	2378966.725	-1489.302	1.224
Ni	60	2976.3032	ug/L	933499.891	17.333	1.991
Cu	63	858.9525	ug/L	570844.623	132.001	1.909
Cu	65	859.3953	ug/L	280295.527	44.000	1.727

Excerpt from the PRR - Analytical

Copper	OK PS	23077MXX	1102232011	18:27	171.87906	2.5	429.7 ug/L	0.31	1		

LCS 965853 (MXX 23077) failed high for lithium (122%), Beryllium (124%), and Bismuth (120%); copper was within QC criteria on the LCS (114%). Bracketing CCVs and CBs pass QC criteria.

Matrix Spike 965854 was spiked off of sample 1102232011 and recovered copper withing QC criteria.

Copper	OK MS	23077MXX	965854	18:29	621.69864	2.5	1554.2 ug/L	0.31	1	112 %REC	1000	1102232011 PASS

If multiple the certified value of by the bias on the LCS (which was within QC criteria) the result is very close to what we reported:

378 ug/L x 1.14 = 430.92 ug/L (Assigned value is 430 ug/L)

Documented Root Cause:

The acceptance limits for the study set such that the laboratory reported result with the high bias (which was within method criteria) was outside the study acceptance limits.

Initial documentation by:	Sarah Lesowski	Date:	7/29/2010
Initial review CAC:	CAC Meeting	Date:	8/4/2010
Was a remedial PE sample ordered?	Yes (WP10-3-116)	SGS WO#:	1103741

Upon successful completion of a remedial PE sample, the results will be recorded by the CAC:

Method #	Test Name	Parameter	Date of Analysis	Lab Result	Units	Certified Value	Acceptance Limits
EPA 200.8	Metals	Copper	8/05/2010	730	ug/L	704.00	638-772

Final Review by QA Manager:	Stephen C. Ede	**Date:**	8/6/10

Permittee name GRANITE POINT TANK FARM State AK NPDES Permit No. G315001 EPA Lab Code AK00971

Chemistry/Microbiology Analyte Checklist

DMR-QA Study 30

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Microbiology			
E. coli.	☐	☐	☐
Fecal Coliform, MF or MPN	☐	☐	☐
Total Coliform, MF or MPN	☐	☐	☐
Trace Metals			
Aluminum	☐	☐	☐
Antimony	☐	☐	☐
Arsenic	☐	☐	☐
Barium	☐	☐	☐
Beryllium	☐	☐	☐
Cadmium	☐	☐	☐
Chromium, total	☐	☐	☐
Chromium, hexavalent	☐	☐	☐
Cobalt	☐	☐	☐
Copper	☒	☒	☐
Iron	☐	☐	☐
Lead	☐	☐	☐
Manganese	☒	☒	☐
Mercury	☒	☒	☐
Mercury (Low Level)	☐	☐	☐
Molybdenum	☐	☐	☐
Nickel	☐	☐	☐
Selenium	☐	☐	☐
Silver	☒	☒	☐
Thallium	☐	☐	☐
Vanadium	☐	☐	☐
Zinc	☒	☒	☐
Demands			
5-day BOD	☐	☐	☐
5-day Carbonaceous BOD	☐	☐	☐
COD	☐	☐	☐
TOC	☐	☐	☐
Minerals			
Alkalinity, total ($CaCO_3$)	☐	☐	☐
Chloride	☐	☐	☐
Fluoride	☐	☐	☐
Hardness, total ($CaCO_3$)	☐	☐	☐
Specific conductance (25°C)	☐	☐	☐
Sulfate	☐	☐	☐
Total Dissolved Solids (180°C)	☐	☐	☐
Nutrients			
Ammonia as N	☒	☒	☐
Nitrate as N	☐	☐	☐
Nitrite as N	☐	☐	☐
Orthophosphate as P	☐	☐	☐
Total Kjeldahl-Nitrogen as N	☐	☐	☐
Total Phosphorus as P	☐	☐	☐
Misc. Analytes			
Non-Filterable Residue (TSS)	☐	☐	☐
Oil and Grease	☒	☒	☐
pH	☐	☐	☐
Total Cyanide	☐	☐	☐
Total Phenolics (4-AAP)	☐	☐	☐
Total Residual Chlorine	☐	☐	☐
Total Residual Chlorine (Low Level)	☐	☐	☐
Settleable Solids	☐	☐	☐
Turbidity	☐	☐	☐

Signature MC Marino-Jones

 Date 8/16/2010 **Use a separate checklist for EACH lab used**

Permittee name GRANITE POINT TANK FARM State AK NPDES Permit No. G315001 EPA Lab Code OR00029

WET Organisms/Test Conditions/End Points Checklist

DMR-QA Study 30

Analyte Number	Organisms / Conditions	End Points	Test Required	Laboratory's Graded Result	
				Acceptable	Not Acceptable (Corrective Action Required)
Test Code 13/EPA Method 2000					
754	Fathead minnow (*Pimephales promelas*) - MHSF 25°C	LC50	☐	☐	☐
Test Code 14/EPA Method 2000					
755	Fathead minnow (*Pimephales promelas*) - 20% DMW	LC50	☐	☐	☐
Test Code 15/EPA Method 1000					
756	Fathead minnow (*Pimephales promelas*) - MHSF	NOEC SURVIVAL	☐	☐	☐
808	Fathead minnow (*Pimephales promelas*) - MHSF	IC25 (ON) GROWTH	☐	☐	☐
810	Fathead minnow (*Pimephales promelas*) - MHSF	NOEC (ON) GROWTH	☐	☐	☐
Test Code 16/EPA Method 1000					
759	Fathead minnow (*Pimephales promelas*) - 20% DMW	NOEC SURVIVAL	☐	☐	☐
812	Fathead minnow (*Pimephales promelas*) - 20% DMW	IC25 (ON) GROWTH	☐	☐	☐
814	Fathead minnow (*Pimephales promelas*) - 20% DMW	NOEC (ON) GROWTH	☐	☐	☐
Test Code 19/EPA Method 2002					
764	*Ceriodaphnia dubia* - MHSF 25°C	LC50	☐	☐	☐
Test Code 20/EPA Method 2002					
765	*Ceriodaphnia dubia* - 20% DMW 25°C	LC50	☐	☐	☐
Test Code 21/EPA Method 1002					
766	*Ceriodaphnia dubia* - MHSF	NOEC SURVIVAL	☐	☐	☐
767	*Ceriodaphnia dubia* - MHSF	IC25 REPRODUCTION	☐	☐	☐
768	*Ceriodaphnia dubia* - MHSF	NOEC REPRODUCTION	☐	☐	☐
Test Code 22/EPA Method 1002					
769	*Ceriodaphnia dubia* - 20% DMW	NOEC SURVIVAL	☐	☐	☐
770	*Ceriodaphnia dubia* - 20% DMW	IC25 REPRODUCTION	☐	☐	☐
771	*Ceriodaphnia dubia* - 20% DMW	NOEC REPRODUCTION	☐	☐	☐
Test Code 32/EPA Method 2021					
788	*Daphnia magna* - MHSF 25°C	LC50	☐	☐	☐
Test Code 38/EPA Method 2021					
794	*Daphnia pulex* - MHSF 25°C	LC50	☐	☐	☐
Test Code 42/EPA Method 2007					
798	Mysid (*Mysidopsis bahia*) 25°C	LC50	☐	☐	☐
Test Code 43/EPA Method 1007					
799	Mysid (*Mysidopsis bahia*)	NOEC SURVIVAL	☐	☐	☐
816	Mysid (*Mysidopsis bahia*)	IC25 (ON) GROWTH	☐	☐	☐
818	Mysid (*Mysidopsis bahia*)	NOEC (ON) GROWTH	☐	☐	☐
Test Code 44/EPA Method 2006					
803	Inland silverside (*Menidia berylina*) 25°C	LC50	☐	☐	☐
Test Code 45/EPA Method 1006					
824	Inland silverside (*Menidia berylina*)	NOEC SURVIVAL	☒	☒	☐
825	Inland silverside (*Menidia berylina*)	IC25 (ON) GROWTH	☒	☒	☐
826	Inland silverside (*Menidia berylina*)	NOEC (ON) GROWTH	☒	☒	☐
Test Code 46/EPA Method 2004					
804	Sheepshead minnow (*Cyprinodon variegatus*) 25°C	LC50	☐	☐	☐
Test Code 47/EPA Method 1004					
805	Sheepshead minnow (*Cyprinodon variegatus*)	NOEC SURVIVAL	☐	☐	☐
820	Sheepshead minnow (*Cyprinodon variegatus*)	IC25 (ON) GROWTH	☐	☐	☐
822	Sheepshead minnow (*Cyprinodon variegatus*)	NOEC (ON) GROWTH	☐	☐	☐

Name MARILU MORENO-JONES Signature M Moreno-Jones Date 8/16/2010

Use a separate checklist for EACH lab used